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PTO/SB/21 (02-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE are required to respond to a collection of information unless it displays a valid OMB control number. Application Number TADEN? 10/689,901 **TRANSMITTAL** Filing Date 21 October 2003 **FORM** First Named Inventor Yach Art Unit (to be used for all correspondence after initial filing) 2171 **Examiner Name** Not Yet Assigned Attorney Docket Number

Total Number of Pages in This Submission

555255012607

ENCLOSURES (Check all that apply)						
Amen  Exten  Expre  Inform  Certifit  Docur	Fransmittal Form  Fee Attached  Indment/Reply  After Final  Affidavits/declaration(s)  Ission of Time Request  Iss Abandonment Request Ination Disclosure Statement Itied Copy of Priority Imment(s)  Inside to Missing Parts/ Inplete Application	Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a Provisional Application Power of Attorney, Change of Correspondence Address  Terminal Disclaimer  Request for Refund  Licensing-related Papers	After Allowance communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): tement Under 37 CFR 3.73(b) acuted Worldwide Assignment			
	Response to Missing Parts under 37 CFR 1.52 or 1.53	TURE OF APPLICANT, ATTORNEY, OR AGE	ENT			
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Signature		(-11				
Date		5 May 2004				
	CERTIFICATE OF TRANSMISSION/MAILING					
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.						
Typed or printed name  John J. Oskorep, Esq.						
Signature		\-\ \-\	Date 05 May 2004			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/80 (12-03)

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## POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I here	by appoint:						
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0	<b>,</b> ,						
	Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):						
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any and	ney(s) or agent(s) to represent the undersigned before that applications assigned only to the undersigned	ne United States Patent and diaccording to the USPTO a	a i rademank Of assignment rec	ords or assignment documents			
attache	d to this form in accordance with 37 CFR 3.73(b).			-			
Assign	ee Name and Address:	** · · · · = = = = - <del>**</del> · · · · · · · · · · · · · · · · · ·	·				
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A cop	y of this form, together with a statement u	nder 37 CFR 3.73(b)	(Form PTO	/SB/96 or equivalent) is			
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authorized to act on behalf of the assignee, and must identify the application in which this Power of							
Attorney isto be filed.							
SIGNATURE of Assignee of Record The individual whose signature and title is supplied below is authorized to act on behalf of the assignee							
Name	Minal Azaridis						
Signatu		-	Date	4 6 2014			
Title	President & Co-CEO		Telephone	519-888-7465			

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or rotain a benefit by the public which is to his (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Cred Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria; VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/96 (08-03) Approved for use through 07/31/2006, OMB 0651-0031

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STATEMENT UNDER 37 CFR 3.73(b)				
Applicant/Patent Owner: Research In Motion Limited				
Application No./Patent No.: 10/689,901 Filed/Iss				
METHODS AND APPARATUS FOR LEXICOGRAPHIC Entitled:	CALLY SORTING CYCLIC DATA			
Research In Motion Limited , a corp	poration			
Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)				
states that it is:  1.   the assignee of the entire right, title, and interest; or  2.   an assignee of less than the entire right, title and interest.	RIM Identification No.: 10460-ID U.S. Attorney Docket No.: 555255012607 USPTO Application No.: 10/689,901			
<ol> <li>an assignee of less than the entire right, title and interest The extent (by percentage) of its ownership interest is — in the patent application/patent identified above by virtue of eith</li> </ol>	er:			
A. [ ] An assignment from the inventor(s) of the patent application in the United States Patent and Trademark Office at Reel attached.	ion/patent identified above. The assignment was recorded, Frame, or for which a copy thereof is			
OR				
B. [ ] A chain of title from the inventor(s), of the patent application below:				
From: To  The document was recorded in the United States I				
Reel, Frame	, or for which a copy thereof is attached.			
2. From:To				
The document was recorded in the United States I Reel, Frame	Patent and Trademark Office at			
3. From: To				
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
[ ] Additional documents in the chain of title are listed	on a supplemental sheet.			
[ Copies of assignments or other documents in the chain of tie [NOTE: A separate copy (i.e., the original assignment documust be submitted to Assignment Division in accordance wirecorded in the records of the USPTO. See MPEP 302.08]	ment or a true copy of the original document)			
The undersigned (whose title is supplied below) is authorized to	act on behalf of the assignee.			
05 May 2004	John J. Oskorep, Esq.			
Date	Typed or printed name			
312-222-1860	(- 14			
Telephone number	Signature			
	Patent Attorney			
	Title Title			

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## **ASSIGNMENT**

WHEREAS, new and useful improvements have been made by the undersigned in

## SYSTEM AND METHOD OF LEXICOGRAPHICALLY SORTING CYCLIC DATA

and are the subject of a provisional patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the dates indicated below in the appropriate spaces to the right of the signatures of the undersigned, which application is further identified as Docket No. PUS-0460.

WHEREAS, RESEARCH IN MOTION LIMITED, a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 295 Phillip Street, Waterloo, Ontario, CANADA N2L 3W8, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants Research In Motion Limited or any of its authorized representatives the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Date: Oct 22 2003 David P. Yach 254 Castlefield Ave Waterloo, Ontario N2K 2N1

CANADA

STATEMENT BY WITNESS

1, Hammy MACFARLANK, whose full Post Office address is

533 CAIRNCAOFT PLACE, WATER LOD, On T. 1121 253

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: Oct. 22, 2003



PTO/SB/122 (09-03)

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## **CHANGE OF CORRESPONDENCE ADDRESS Application**

Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450.

Application Number	10/689,901				
Filing Date	21 October 2003				
First Named Inventor	Yach	, , , , ,			
Art Unit	2171	<u> </u>			
Examiner Name	Not Yet Assigned				
Attorney Docket Number	555255012607				

Please change the Correspondence Address for the above-identified patent application to:  Customer Number:							
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ł am the:							
Applicant/In	ventor						
Assignee of record of the entire interest. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).							
✓ Attorney or Agent of record. Registration Number 41,234							
Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number							
Typed or Printed Name  John J. Oskorep							
Signature							
Date 05 May 2005	e 05 May 2005 Telephone 312-222-1860						
NOTE: Signatures of all the inventors or assignees of accord of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below:							
Total offorms are submitted.							

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